CONTINUOUS IMPROVEMENT ROADMAP



DEFINE

ASSURANCE TO SUSTAIN AND ROBUST MONITORING: To confirm improvement and maintain the gains overtime

CONTROL

MEASURE

UNDERSTAND AND QUANTIFY THE PROBLEM by measuring the current state, the activities, and pain points

IMPLEMENT AND DELIVER
RELENTLESSLY: The change by
implementing (roll up your sleeves)
until the root cause and goals are
achieved

IMPROVE

ANALYZE

IDENTIFY THE ROOT CAUSES: drill down the "to-be" state and prioritize the action plan

DEFINE

MEASURE

ANALYZE

IMPROVE

CONTROL

GOAL

ACTIVITIES

KEY

· Define the Focus and Initiative

 Understand the flow activity. pain points, waste and impacts

- Identify priorities
- Map the "To-be" improvement
- Layout proposed solutions with impacts
- · Pilot the "To-be" and implement the improvement
- · Process solutions are embedded and sustained
- Sustain the change

1. Establish Objectives and Scope strategies

- 2. Align objectives with PSF
- 3. Assess dependencies, risks, constrains, potential roadblocks
- 4. Define metrics to solve or improve

- 1. Map or layout the current state (As-Is)
- 2. Identify waste and/or pain points
- 3. Conduct the required measurements for further analysis
- 4. Validate the current state understanding

- 1. Analyze and Prioritize opportunities
- 2. Team brainstorming
- 3. Select solutions from the analysis
- 4. Describe implementation plan and results
- 5. Conduct change impact assessment

- 1. Determine if a pilot test is required
- 2. Conduct the pilot (or simulation) and review potential risk
- 3. Make necessary changes
- 4. Involve all team members
- 5. Execute implementation

- 1. Scale up the new process
- 2. Create system to monitor and control the new process
- 3. Update relevant documentation that impact other areas
- 4. Update Targets, KPI's
- 5. Hand off project to the process owner

Cl Business Case or Kaizen

- High level map of current state (SIPOC)
- Gemba Walk

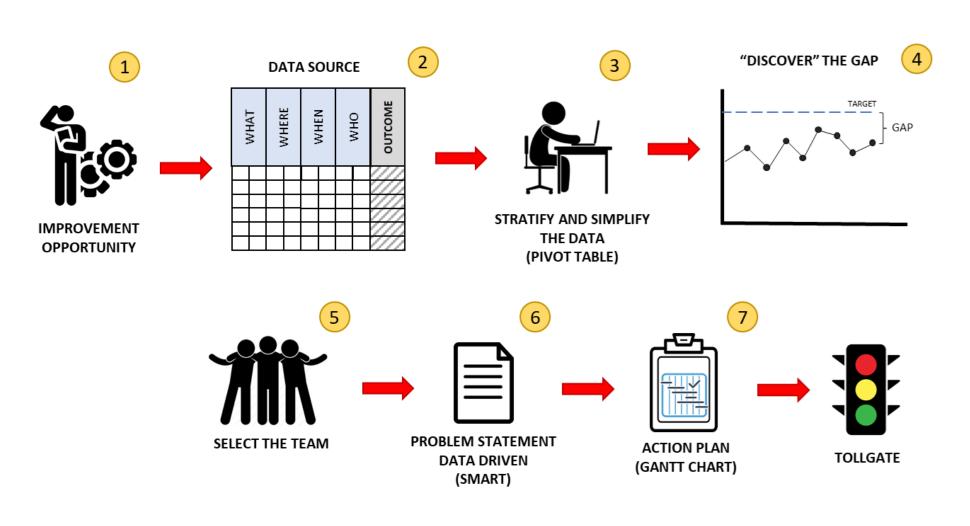
- Process Map "As-Is"
- Pareto
- Data collection
- Current Value Stream Map
- 8 Waste assessment

FMEA

- Ishikawa (Fishbone)
- Run chart
- VA & NVA Analysis
- Process Capability

- Process Map "To-Be"
- Pilot Testing
- · Line Balancing, SMED,
- · Kanban, Process redesign
- Cl Business Case Closure
- KPI's Update (OEE)
- Standard Work and SOP
- Process/ Production Controls

DISPLAY THE PROBLEM



DEFINE

GOAL

 Define the Focus and Initiative

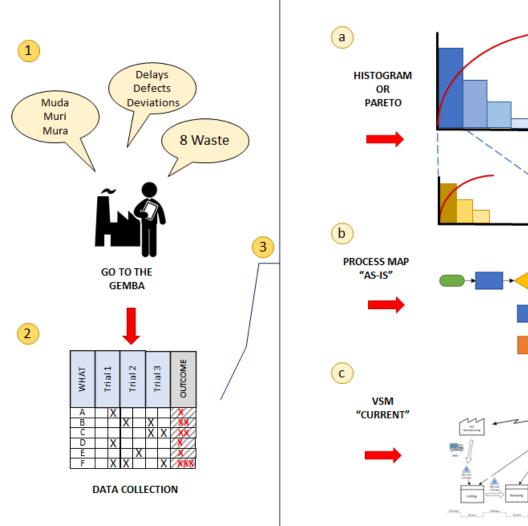
KEY ACTIVITIES

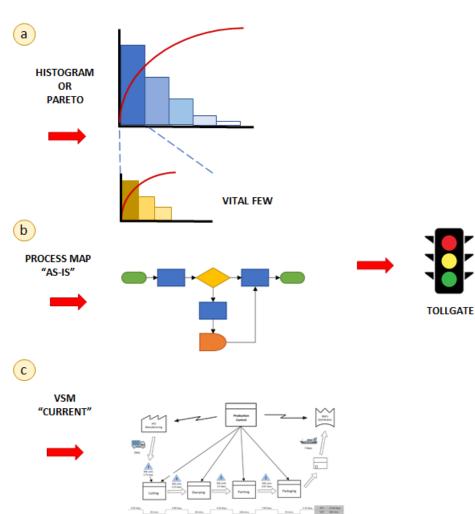
- Establish Objectives and Scope
- 2. Align objectives with PSF strategies
- 3. Assess dependencies, risks, constrains, potential roadblocks
- 4. Define metrics to solve or improve

KEY OUTPUTS

- CI Business Case or Kaizen
- High level map of current state (SIPOC)
- Gemba Walk

UNDERSTAND AND QUANTIFY THE PROBLEM





MEASURE

GOAL

 Understand the flow activity, pain points, waste and impacts

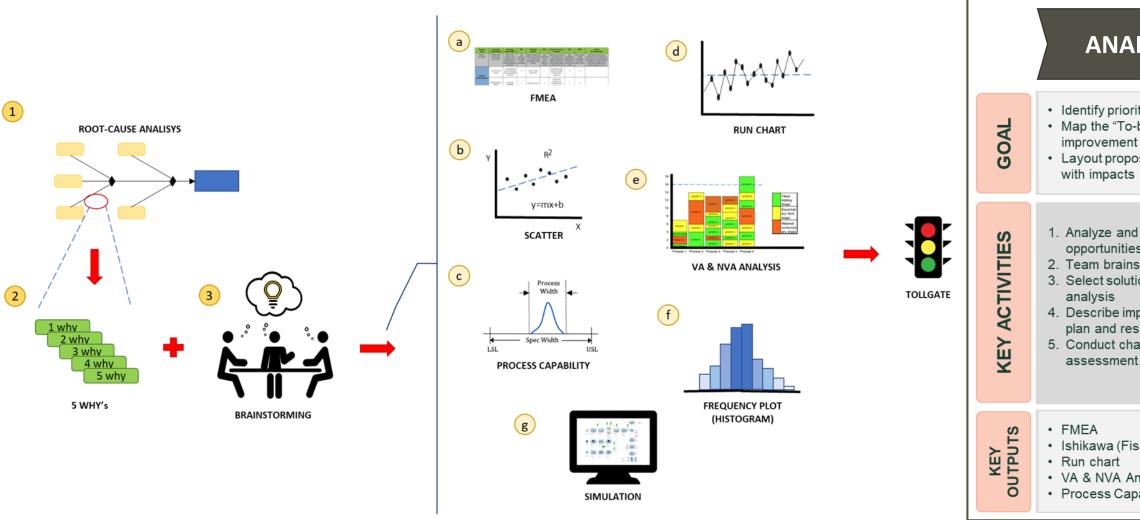
KEY ACTIVITIES

- 1. Map or layout the current state (As-Is)
- 2. Identify waste and/or pain points
- Conduct the required measurements for further analysis
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KEY

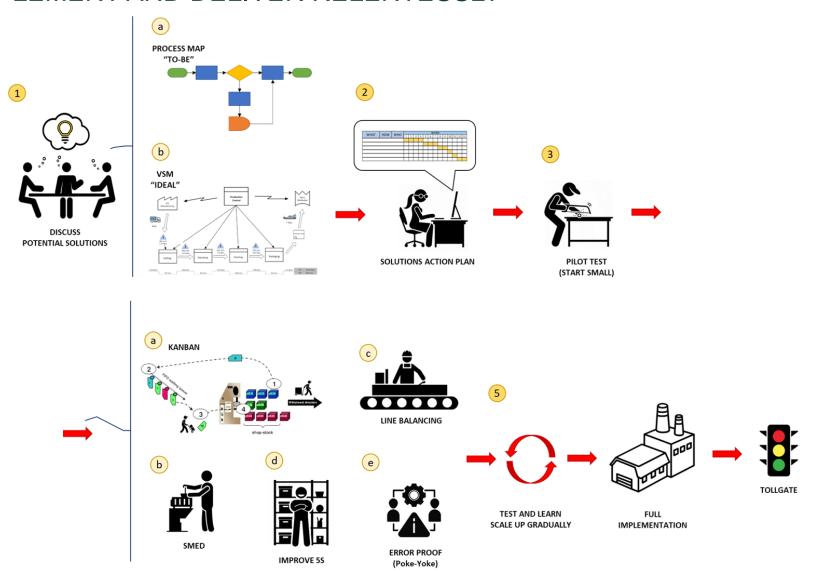
- Process Map "As-Is"
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IDENTIFY THE ROOT CAUSES



ANALYZE · Identify priorities · Map the "To-be" improvement · Layout proposed solutions 1. Analyze and Prioritize opportunities 2. Team brainstorming 3. Select solutions from the 4. Describe implementation plan and results 5. Conduct change impact assessment • Ishikawa (Fishbone) • VA & NVA Analysis Process Capability

IMPLEMENT AND DELIVER RELENTESSLY



IMPROVE

GOAL

 Pilot the "To-be" and implement the improvement

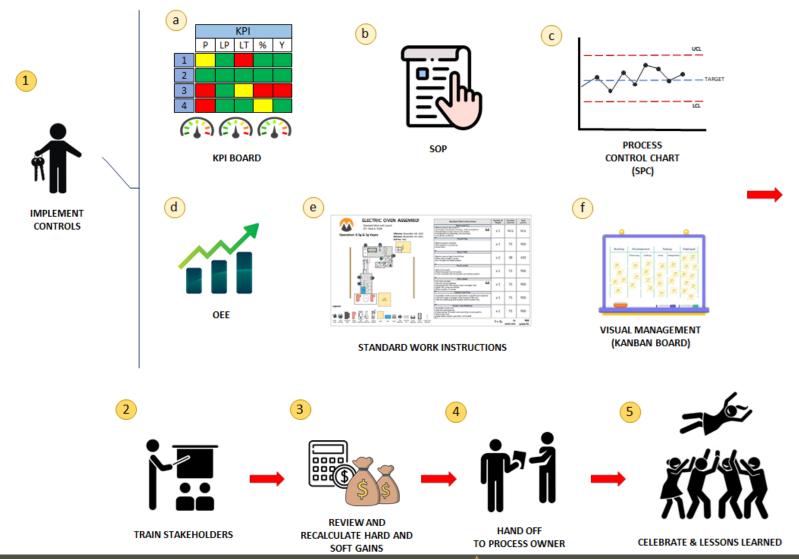
KEY ACTIVITIES

- 1. Determine if a pilot test is required
- Conduct the pilot (or simulation) and review potential risk
- 3. Make necessary changes
- 4. Involve all team members
- 5. Execute implementation

KEY OUTPUTS

- Process Map "To-Be"
- Pilot Testing
- · Line Balancing, SMED,
- Kanban, Process redesign

ASSURANCE TO SUSTAIN AND ROBUST MONITORING



CONTROL GOAL embedded and sustained 1. Scale up the new process **ACTIVITIES**

· Process solutions are

· Sustain the change

2. Create system to monitor and control the new process

- 3. Update relevant documentation that impact other areas
- 4. Update Targets, KPI's
- 5. Hand off project to the process owner

KEY OUTPUTS

- · CI Business Case Closure
- · KPI's Update (OEE)
- · Standard Work and SOP
- Process/ Production Controls